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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.						
10/659,930	09/11/2003	Wayne E. Cornish	ACS 65357 (1512XCC)	5064						
7590	07/08/2009	<table border="1"><tr><td>EXAMINER</td></tr><tr><td>FOREMAN, JONATHAN M</td></tr><tr><td>ART UNIT</td><td>PAPER NUMBER</td></tr><tr><td colspan="2">3736</td></tr></table>			EXAMINER	FOREMAN, JONATHAN M	ART UNIT	PAPER NUMBER	3736	
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		07/08/2009	PAPER							

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No.	Applicant(s)	
	10/659,930	CORNISH ET AL.	
	Examiner	Art Unit	
	JONATHAN ML FOREMAN	3736	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on 06 March 2009.

2a) This action is **FINAL**. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

4) Claim(s) 64,65 and 67-84 is/are pending in the application.

4a) Of the above claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 64,65 and 67-84 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.

Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).

Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).

11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some * c) None of:

- Certified copies of the priority documents have been received.
- Certified copies of the priority documents have been received in Application No. _____.
- Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

1) Notice of References Cited (PTO-892)

2) Notice of Draftsperson's Patent Drawing Review (PTO-948)

3) Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____.

4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.

5) Notice of Informal Patent Application

6) Other: _____.

DETAILED ACTION

New grounds of rejection are contained within this Office Action. Accordingly the finality of the previous office action has been withdrawn and this action has been made Non-Final.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 64, 65, 67 – 76 and 78 - 83 rejected under 35 U.S.C. 102(b) as being anticipated by U.S. Patent No. 5,120,308 to Hess.

In regard to claims 64, 65, 67 – 70, Hess discloses an intracorporeal device (14) comprising an elongated member having a longitudinal length and means for causing a ***substantially*** linear change in bending stiffness over the entire longitudinal length of the elongated member, wherein the elongated member has a plurality of tapered segments (16, 18, 20) configured to produce the ***substantially*** linear change in bending stiffness over the length of the member. It is noted that the term “substantially” is often used in conjunction with another term to describe a particular characteristic of the claimed invention. It is a broad term. *In re Nehrenberg*, 280 F.2d 161, 126 USPQ 383 (CCPA 1960). See MPEP 2173.05(b). The Examiner considers the plurality of tapered segments producing a ***substantially*** linear change in bending stiffness over the length of the member in that the tapered sections reduce the cross sectional area of the member substantially linearly and that bending stiffness is directly proportional to cross sectional area. The length of the elongated member has a continuously changing taper angle (Figure 1) producing a curvilinear profile that is configured to produce the substantially linear change in bending stiffness over said length.

Each tapered segment has a substantially constant taper angle. The elongate core member comprises at least 3 to about 100 tapered segments (16, 18, 20; Col. 8, lines 1 – 3). The elongated core member comprises a material with changing hardness in a longitudinal direction configured such that the change in hardness produces a substantially linear change in bending stiffness along the length of the core member in that the material decreases in cross sectional area along the length of the core member. The member tapers distally to a more flexible distal portion (20).

In regard to claims 71 – 83, Hess discloses a guidewire comprising an elongated core member having at least one longitudinal section having a *substantially* linear change in bending stiffness over the length thereof. It is noted that the term “substantially” is often used in conjunction with another term to describe a particular characteristic of the claimed invention. It is a broad term. *In re Nehrenberg*, 280 F.2d 161, 126 USPQ 383 (CCPA 1960). See MPEP 2173.05(b). The Examiner considers the plurality of tapered segments producing a *substantially* linear change in bending stiffness over the length of the member in that the tapered sections reduce the cross sectional area of the member substantially linearly and that bending stiffness is directly proportional to cross sectional area. Even though Hess may not expressly disclose the formula set forth in claim 71, the guidewire of Hess is sufficient to read on the claim. It is respectfully noted that the claim only requires that the diameter be defined by the formula for a single value of length L. Since C is a constant that depends on the boundary conditions of the longitudinal section, C can arbitrarily be defined so that the formula will be true for at least one point at a distance of L from a starting position of any taper. Therefore, the longitudinal section of Hess has a tapering diameter defined substantially by the formula set forth in claim 71 for one value of L. Similarly, the longitudinal section has a moment of inertia defined substantially by the formula set forth in claim 78 for one value of L. The core member is formed of NiTi alloys (Col. 6, lines 5 – 8). A flexible body (22) is

disposed about and secured to a distal core section. The guidewire comprises at least 3 to 100 tapered segments (16, 18, 20). The guidewire comprises at least 5 to 100 tapered segments (Col. 8, lines 1 – 3). The proximal and distal core sections are coated with a lubricious coating (Col. 8, lines 8 – 10).

Response to Arguments

3. Applicant's arguments with respect to the claims have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JONATHAN ML FOREMAN whose telephone number is (571)272-4724. The examiner can normally be reached on Monday - Friday 8:00 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Max Hindenburg can be reached on (571)272-4726. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/J. M. F./
Examiner, Art Unit 3736

/Max Hindenburg/
Supervisory Patent Examiner, Art Unit 3736